...43/13-14

...ನಾಥ, 8.6 ...ಮಾಡಿ ...

...ಡಾಯ ಚಿತ್ರಮಿಡಿ

...201 ರಿಂದ 184300 ರವರೆ

...ಗೆ

...ಪಾಲಕ ಇಂಜಿನಿಯರ್
...ರಾಯನಮಾರ ವಿಭಾಗ
...ಪಾ. ಯಲಹಂಕ ಕಲಯತಿ
...ಪಾರು, ಬೆಂಗಳೂರು-56.

13/01

...nal and final Bill

M. A. R. 57 (Rule 116)
Measurement Book

BR-43C / 29-3-14 No. B 184201

Serial No. .....

Name of work Improvement to Roads, Drains and construction of From To Culverts at MS palya 2nd stage

Name of Contractor of nature of Agency Malleshwara Main Road and cross Roads in ward No. 11.

Date of commencement of work Agency: P. Kumar Swamy, # 30, 1st Main, C. Street, New Guddadahalli

Date	Full description, etc, of work	Mysore. Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Work code No: 011-14-000014						
	Work order No: EE/BTP/BBMP/E-Proc/WO/492/2013-14 Date: 29.02.2014						
	EN cost: 20.00 lakhs.						
	Date of Recording: 25-2-14						
1)	Earth work excavation by manual means in hard soil involving an average lead upto 2 mts and average lift upto 50 cm excavated surface leveled and sides neatly dressed the dumpload earth to be leveled neatly after breaking of clods etc complete as per specification.						
	As per premeasurement Recorded vide Page No: 184285-86 & this MB i/o					499.05 cum 449.27 say @ 89.81 = 8555 =00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) construction of embankment with approved materials gravel/murram with all lift and ready rampuling to site spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specification which included cost of gravel/murram, watering charges and compaction by vibratory roller) the complete as per specification and direction of engineer in charge of work						
		As per					
	wide						
						218.70 cum	
						@ 161.61/cum	353444=00
	2) providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs using hoomn and down size crushed granite metal corse aggregate @ 0.85 cum and fine aggregates @ 0.58cum machine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth including						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	cost of all materials labo and Direction of engineer i
	As per pe
	No of (in
	Measurem
	3) providing and constructi with cement mortar 1:6 s stone at 2m apart in

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184202

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	cost of all materials labours ltom & machinery curing etc complete as per and Direction of engineer in charge of work. As per pemeasurement Recorded vide page No of Lines MB No 184286-87					201.53 cum @ 4247.93/cum	856085=00
	Measurement continued on 27-2-14						
3)	Providing and constructing granite / trap / basalt side stone masonry in foundation with cement mortar 1:6 stone hammered dressed in course not less than 20 cms high bond stone at 2m apart in each course including cost of material labour curing etc						

...avel / murrum with all ...rized slope and ...specification which ...mpaction by vibratory ...gineer in charge of work ...ual ...MB No ...8-70 cum ...61/cum 353444=00

...of mix M7.5 with OPC ...anite metal course aggregate ...concrete laid in layers ... and plinth including

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	completed as per specification and direction of engineer in charge of work.						
		2	5.00	0.60	0.90	5.40 cum	
					@	3449.38/cum	18627.00
4)	providing ruled pointing to concrete stone masonary with cement mortar 1:3 20 mm deep after raking joints to depth of 20mm nicely lining including cost of materials labour curing etc complete as per specification and direction of engineer in charge of work.						C&Pc
		2	5.00	-	0.90	9.00 sqm	
					@	75.56/sqm	680.00
5)	providing and laying in position plain cement concrete of mix M15 with cement @ 240 kgs with 20mm and down size excluding granite metal coarse						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	aggregates @ 0.878 cum concrete in layers not ex plinth and sills includi etc complete as per spec
6)	providing and removing f form work for vertical s pilasters, buttresses plinth

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		engineer in charge of work.	
	0.90	5.40 cm	
	@	3449.38/cm	18627=00
		masonary with cement mortar 1:3 20 mm nicely lining including cost per specification and direction of	
	0.90	9.00 cm	C&Fc 680:00
	@	75.56/cm	
		ment concrete of mix M15 with ize crushed granite metal coarse	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184203

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed concrete in layers not exceeding 15 cm thick well compacted in foundation plinth and cills including cost of all materials labour, HOM of machinery etc complete as per specification and direction of engineer in charge of work.	2	5.00	0.60	0.10	0.60 cm	C&Fc 1.25/c
					@	4643.60/cm	2786:00
6)	Providing and removing centering shuttering shuttering propping etc and removal of form work for vertical surface such as walls at any thickness including attached pilasters, buttresses plinth and string courses cost of all material labour etc						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	complete as per specification and direction of engineer in charge of work.						
	As per premeasurement recorded vide page no 184287 of 15:5 MB i/s					3=00 cum @ 268.37 /cum	805=00
	Measurement continued on: 2-3-14						
7)	providing and laying in position reinforced cement concrete of design mix M20 with opc cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregates @ 878 cum and fine aggregates @ 0.459 cum with super plasticizer @ 3% confirming to IS 9103-1999 recommended - 2008 machine mixed concrete laid in layers not exceeding 15cms thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase lintel retaining walls						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3
	wall (any thickness) including pots struts buttresses including complete as per spe	
	Dese slab	1
8)	providing TMT steel reinforc bending, hooking placing in tying with binding wire an necessary complete as per design C	

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
			g engineer in charge of work.
			recorded weekly pay
			3=00 Kg
			@ 268.37/Kg 805=00
			d -do- 2-3-1/4
			d cement concrete of design mix
			n and decomposed granite
			ipalis @ 0.459 cm with super plastici
			ed - 2008 machine mixed concrete
			rated for all works in foundation
			. staircase lintel retaining walls

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184204

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Wall (any thickness) including attached pilasters. columns piers abutments, pillars Posts struts buttresses including cost of all materials. labour HOM of mixing curing etc complete complete as per specification and direction of engineer in charge of work.						
	Deck Slab	1	5-00	1-80	0-25	2.25 cm	
						@ 5583.36/cm	12563=00
8)	providing TMT steel reinforcement for RCC work including straightening cutting bending, hooking placing in position lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design Claps hooks and wastage shall not be measured and						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Paid) cost of materials labour H/M of machenry etc complete as per specification and direction of engineer in charge of work.						
	as per premeasurement Recorded vide page No 184288 of this MB P/S					2.03 Qtl @ 7326.44/Qtl	14937.00
	Measurement continued on 26/3/17						
	9) providing and fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing and technical as complete as per specification and direction of engineer in charge of work.						
		2	4.00	-	-	8.00	
		4	4.50	-	-	18.00	

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2

OOK

Depth 6	Contents 7	Reference to last Measurement 8
ly as complete as per specification		
ordinal wide pape		
rs	2.03 Qtl	
	@ 7376.44/Qtl	14937=00
	2/3	
04)26)3)1M		
ble fibre board in expansion		
l as complete as per specificati		
-	8.00	
-	18.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184205

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		2	4.50	-	-	9.00	
		2	5.20	-	-	10.40	
		3	5.20	-	-	15.60	
		2	5.20	-	-	10.40	
		3	4.00	-	-	12.00	
		3	3.10	-	-	9.30	
		2	4.30	-	-	8.60	
		2	4.10	-	-	8.20	
		2	3.00	-	-	6.00	
		2	3.10	-	-	9.30	
		3	2.30	-	-	6.90	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತ
ವಿದ್ಯುದ್ದೀಪ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ.
ಪ್ರ. ಬೆಂ. ಮ ಕಾ. ಪರಿಷತ್ತು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						131.50 sqm	
					@	135.79/M	17856=00
	(10) providing and laying cement concrete using 20mm and down size granite jelly & ready mixed concrete(RMC) for RCC works laid in 15cm thick layers and well compacted vibrating, curing finishing with neat cement mortar form works and shuttering to withstand pumping & concrete with all lead and lift etc complete (exclusive of cost of steel and fabrication charges) Ready mix cement concrete M20 (1:1.5:3) for raft foundations, colu footing main and secondary beams etc complete as per specification and direction of engineer in charge of work.						
	3rd main 6th cross 2nd stage CC Road	1	30.00	(5.2+5.1)/2	0.070	15.45	C&FS

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Serial No. .....
Name of work ..... From ..
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
		1
	Cross Road 2 RHS	1
		1
		1
		1
		1
		1
		1
	Cross Road 1 RHS	1

BOOK

ns		Contents	Reference to last Measurement
eadth	Depth		
5	6	7	8
		131.50 sqm	
	@	135.29/4	17856 = 00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{(2.7+3.0)}{2}$	0.070	8.55	
		1	30.00	$\frac{(3.0+2.5)}{2}$	0.070	8.25	
		1	5.10	$\frac{(2.5+2.5)}{2}$	0.070	1.22	
	CROSS Road 3 RHS	1	20.30	$\frac{(4.0+4.7)}{2}$	0.070	11.88	
	4 RHS	1	20.00	$\frac{(4.7+4.6)}{2}$	0.070	12.09	
	4LHS	1	28.90	4.40	0.070	12.72	
	5 LHS	1	30.00	$\frac{(4.6+4.7)}{2}$	0.070	13.95	
						133.35 Cum	
					@	6400.25/Cum	853471 =

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
11)	vacuum De-watering with Skin Heater clubbed machine screed vibrating and direction of engineer in 2nd Stage 3rd main 6th Cross
	CR 2 RHS

BOOK

s		Contents	Reference to last Measurement
adth	Depth		
	6	7	8
-3.0)	0.070	8.55	
2.5)	0.070	8.25	
2.5)	0.070	1.22	
4.7)	0.070	11.88	
4.6)	0.070	12.09	
0	0.070	12.12	
4.7)	0.070	13.95	
		133.35 cum	
		6400.25 cum	85347 (=)

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184207

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
11)	vaccum de-watering with vaccum pump and nuclin mat and compaction with skin heater clubbed with floating dive including cost & generator Hire & machinery screed vibrating floater blade and dive etc complete as per specification and direction & engineer in charge & work.						
	2nd stage 3rd main 6th Chainage	1	30.00	$\frac{(5.2+5.1)}{2}$	-	154.50	
		1	19.50	$\frac{(5.1+4.0)}{2}$	-	65.98	
	CR 2 RHS	1	18.50	$\frac{(3.0+3.1)}{2}$	-	59.48	
		1	19.20	$\frac{(2.3+2.15)}{2}$	-	31.60	
		1	30.00	$\frac{(3.6+4.3)}{2}$	-	118.50	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ವಿದ್ಯುದ್ದೀಕರಣ ಉಪ ವಿಭಾಗ ಯಲಹಂಕ ವಲಯ.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	10.00	$\frac{(4.3+4.1)}{2}$	-	54.60	
		1	5.30	$\frac{(2.1+2.2)}{2}$	-	11.40	
		1	10.40	$\frac{(4.1+3.8)}{2}$	-	68.73	
	CR 1 RHS	1	30.00	$\frac{(3.2+2.7)}{2}$	-	88.50	
		1	30.00	$\frac{(2.7+3.4)}{2}$	-	85.50	
		1	30.00	$\frac{(3.0+2.5)}{2}$	-	82.50	
		1	5.10	$\frac{(2.5+2.3)}{2}$	-	12.24	
	CR 3 RHS	1	28.30	$\frac{(4.0+4.7)}{2}$	-	118.76	
	CR 4 RHS	1	28.00	$\frac{(4.7+4.6)}{2}$	-	120.90	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿ
ವಿದ್ಯುದ್ದೀಕರಣೆಪುರ ಉಪವಿ
ಯಲಹಂಕ ವಲಯ
ಬೆ.ಮ.ಕಾ.ನಿ.ನಿ

Serial No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	CR 4 LHS
	CR 3 LHS
	certificate: certified that

OOK

Depth 6	Contents 7	Reference to last Measurement 8
-	54.60	
-	11.40	
-	68.73	
-	88.50	
-	85.50	
-	82.50	
-	12.24	
-	118.76	
-	120.90	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184208

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CR 4 LHS	1	28.80	4.40	-	127.16	
	CR 3 LHS	1	20.00	(4.6+4.7)/2	-	139.50	
						1333.50	121201=00
					@ 90.89		
					Total		~~19,43,275=00~~ 19,43,275=00

certificate:

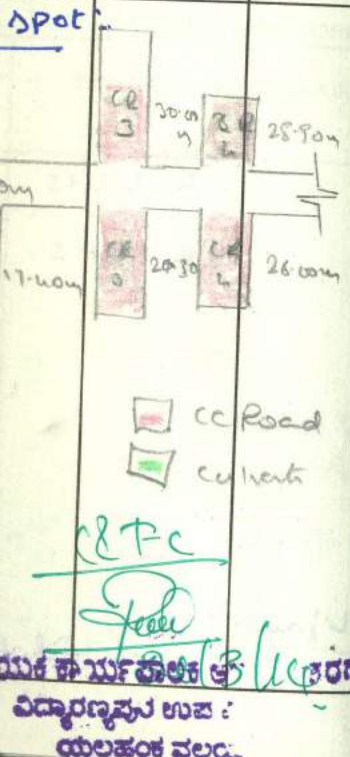
certified that the work done is satisfactory

CR
₹2613/14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ

OK

Depth 6	Contents 7	Reference to last Measurement 8
Spot		



ಮುಖ್ಯ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ನಗರ
ಯಲಹಂಕ ವಲಯ

M. A. R. 5
Measur

No. B 184209

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	19,43,200=00 2,70,712=00 16,72,558=00 ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಸಿ				IT 19433 WT 22231 FD 116596 CW 19433 CBT 19433 RW 35578 26 Total 2,70,712=00		